

## **ABSTRACT OF THE DISCLOSURE**

A multiple frequency wireless receiver for connecting computer peripheral devices with a host computer via an interface, includes a single  
5 oscillator for generating an oscillator signal; a mixer coupled to the receiving unit for mixing at least two signals having different frequencies with the oscillator signal in order to obtain at least two different mixed signals, at least two filters tuned to different frequencies for respectively passing a respective one of the two different mixed signals to a  
10 mixed-signal processing unit for demodulation and transformation into commands to be sent to the host computer via the interface.